

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.

Hackney * Ladish * Flo-Bend

P.O. Box 568887 - 2525 Stemmons Freeway - Dallas, TX 75356 - 8887

Phone: (214) 589-8177 Fax: (214) 589-8892

Order Number: 4515

(257500-002) INV #00115650 02/08/22 Date: 08/23/02

Sold to: TUBOS CONEXIONES Y TANQUES
VALLE DE LAS ALAMEDAS NO.66 B
SAN FRANCISCO CHILPAN
TULTITLAN, EOO. DE MEXICO

Ship to: TUBOS CONEXIONES Y TANQUES 001
C/O SPECIALIST IN TRANSIT FWR
1801 MARKLEY - MODERN IND PARK
LAREDO TX 78041

Heat Code	Quantity	Description / Specifications
RE02CZ ✓	2	24 STD LR 90 DEG EL A/SA 234 - 99 WPB A106B 9 A41342 AS ROLLED NACE MR0175
EE02JD ✓	10	10 X 6 STD RED TEE A/SA 234 - 01 WPB A106-B 48/95324 NORM. 1650 NACE MR0175
EK01EY ✓	5	12 X 8 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A22872 NORM. 1650 NACE MR0175
EH01CX ✓	5	12 X 10 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A21087 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
RE02CZ	M	.160	.730	.010	.009	.230	.030	.020	.060	.010	.0290
EE02JD	M	.200	.610	.010	.005	.270	.070	.040	.050	.040	.0200
EK01EY	M	.180	.750	.003	.001	.210	.020	.030	.050	.020	.0300
EH01CX	M	.180	.810	.005	.005	.210	.020	.030	.060	.020	.0260

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RE02CZ		.001	.0001		.001					.299
EE02JD	.0073	.010	.0005	.0100	.010	.005	.002	.001	.050	.328
EK01EY	.0050	.010	.0005	.0100	.010	.003	.003	.002	.050	.324
EH01CX	.0050	.010	.0005	.0100	.010	.003	.002	.002	.050	.336

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RE02CZ	68.0			46.4	46.0		79
EE02JD	73.0	L		49.4	36.0	73.0	143
EK01EY	72.9	L		45.0	38.0	73.0	116
EH01CX	72.0	L		42.6	33.0	71.0	116

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RE02CZ						
EE02JD						
EK01EY						
EH01CX						

Test: M=Mill Product

Type: L=Longitudinal

We certify that the material herein described has been manufactured, heat treated, sampled, tested, and inspected in accordance with the above standards and specifications and satisfies those requirements. We certify these flanges and fittings capable of passing a hydrostatic test compatible with their rating. The above figures are correct as contained in the records of the Company. This information has been electronically transmitted to our customer.
/S/ Glinda LaFleur